

THICKENING OR GELATION OF AQUEOUS SOLUTION OF POLYACRYLIC ACID HYDRIZIDE COMPOUND

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Abstract of JP56131603

PURPOSE: To effect thickening or gelation of an aqueous solution of a polyacrylic acid hydrazide type compound within a practically short time, by adding thereto a specified polyfunctional compound.

CONSTITUTION: As a gelling agent, a polyfunctional compound is used such as a compound having at least two carbonyl groups in the molecule (except acid anhydrides, example: glyoxal) or a compound having at least two isocyanato groups (example: 1,3-phenylene diisocyanate). That is, such a gelling agent is added to an about 20wt% aqueous solution of a polyacrylic acid hydrazide type compound of the formula, wherein X is H or carboxyl, Y is H or methyl, A is a (meth)acrylamide unit, a (meth)acrylate ester unit or a maleic anhydride unit, B is a different monomer unit copolymerizable with unit A, I is 1-100mol% and m+n is 99-0mol%, so that the molar ratio of the carbonyl groups or the isocyanato groups to the hydrazide groups is 2 or lower.

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